FIG. 1

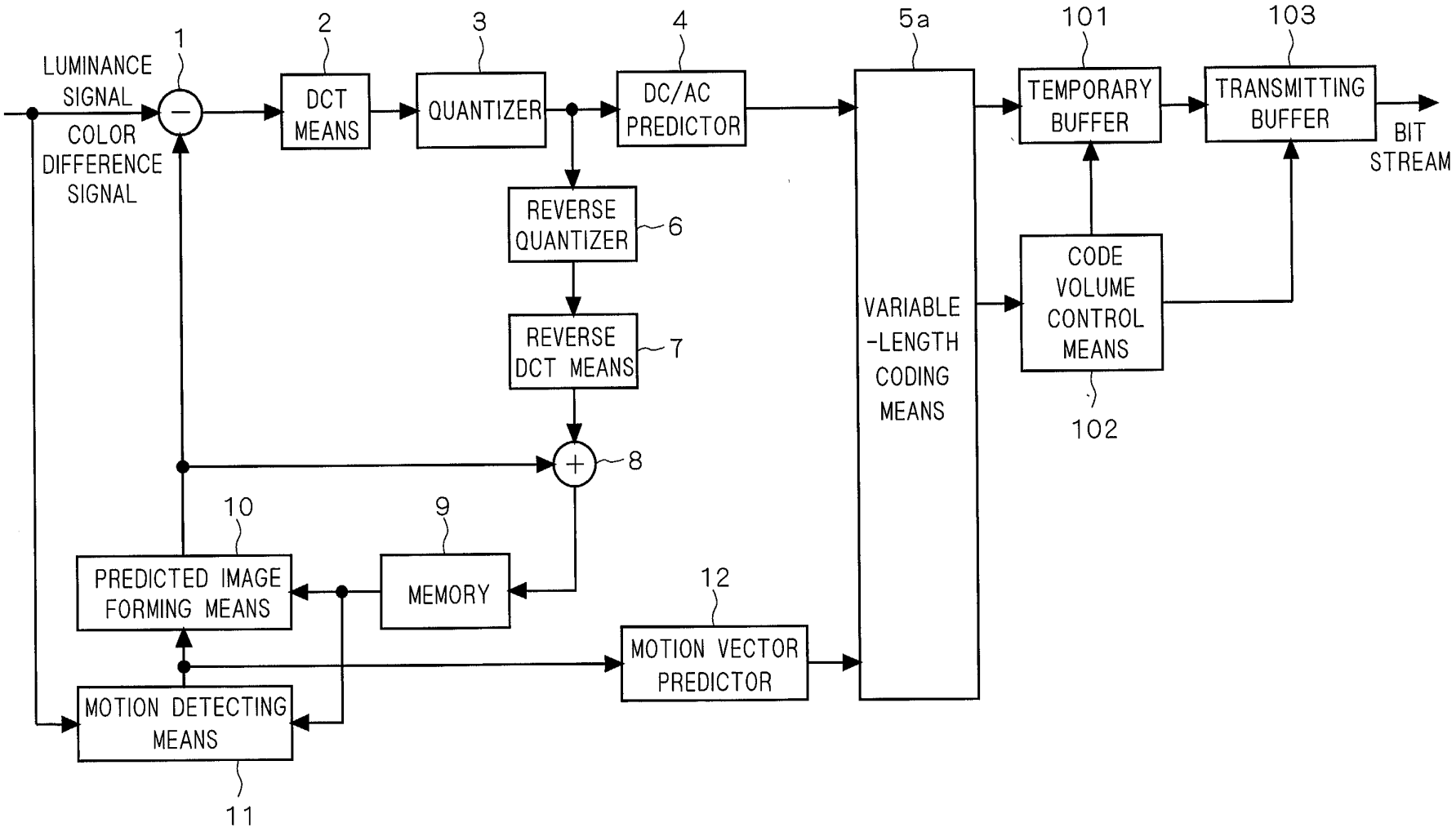

LUMINANCE SIGNAL
COLOR DIFFERENCE SIGNAL
1
2
DCT MEANS
3
QUANTIZER
4
DC/AC PREDICTOR
5a
VARIABLE -LENGTH CODING MEANS
101
TEMPORARY BUFFER
103
TRANSMITTING BUFFER
BIT STREAM
REVERSE QUANTIZER
6
REVERSE DCT MEANS
7
8
CODE VOLUME CONTROL MEANS
102
10
PREDICTED IMAGE FORMING MEANS
9
MEMORY
12
MOTION VECTOR PREDICTOR
MOTION DETECTING MEANS
11

FIG. 2

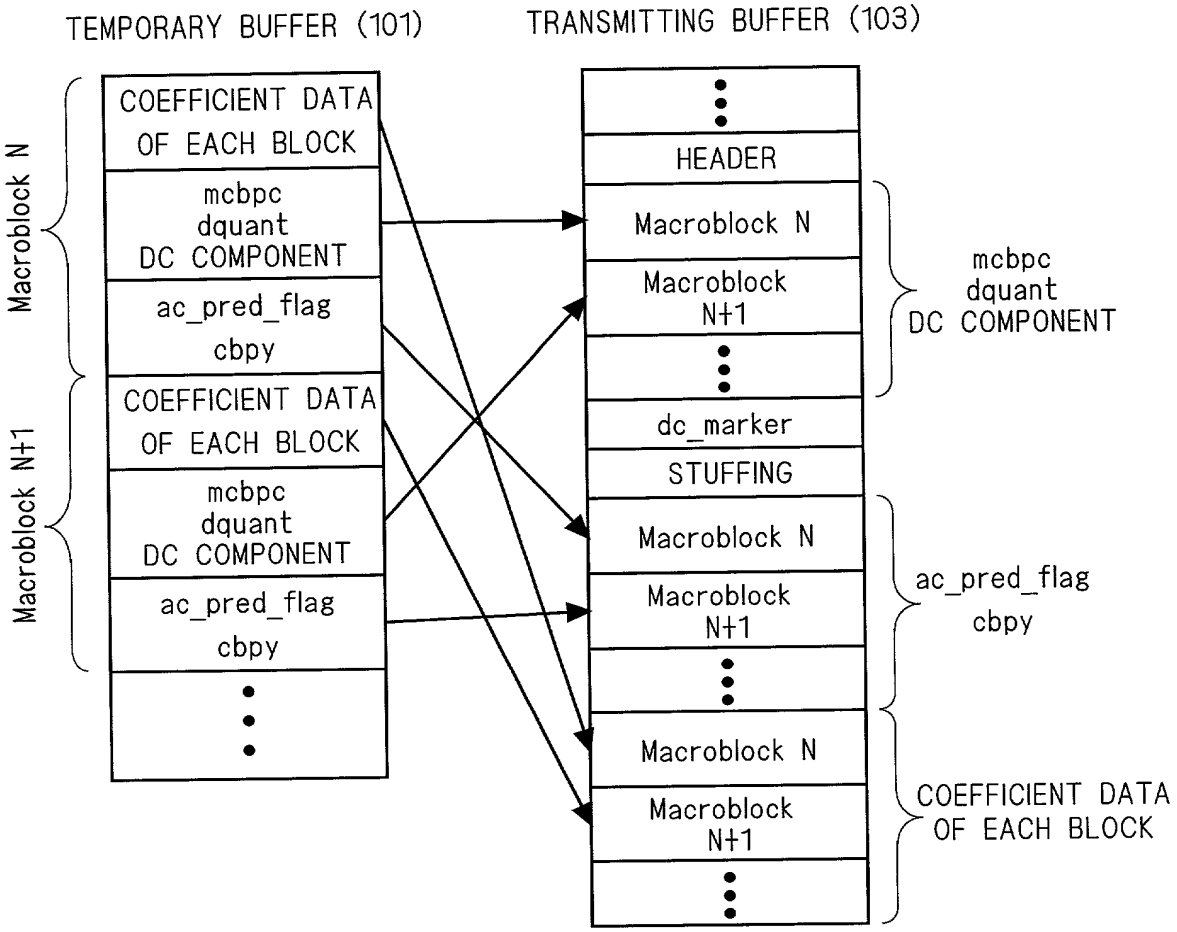

TEMPORARY BUFFER (101)
TRANSMITTING BUFFER (103)
Macroblock N
Macroblock N+1
COEFFICIENT DATA OF EACH BLOCK
mcbpc dquant DC COMPONENT
ac_pred_flag cbpy
COEFFICIENT DATA OF EACH BLOCK
mcbpc dquant DC COMPONENT
ac_pred_flag cbpy
HEADER
Macroblock N
Macroblock N+1
dc_marker
STUFFING
Macroblock N
Macroblock N+1
Macroblock N
Macroblock N+1
mcbpc dquant DC COMPONENT
ac_pred_flag cbpy
COEFFICIENT DATA OF EACH BLOCK

FIG. 3

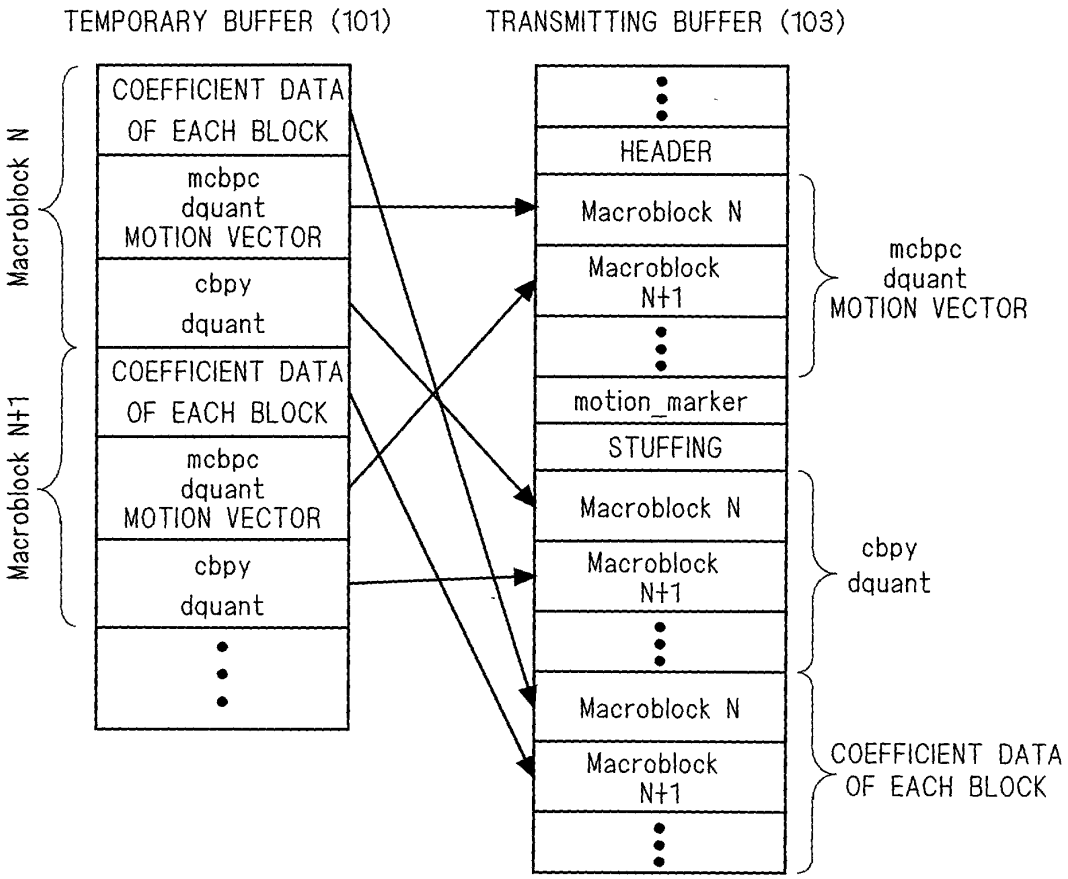

TEMPORARY BUFFER (101)
TRANSMITTING BUFFER (103)
Macroblock N
Macroblock N+1
COEFFICIENT DATA OF EACH BLOCK
mcbpc dquant MOTION VECTOR
cbpy dquant
COEFFICIENT DATA OF EACH BLOCK
mcbpc dquant MOTION VECTOR
cbpy dquant
HEADER
Macroblock N
Macroblock N+1
motion_marker
STUFFING
Macroblock N
Macroblock N+1
Macroblock N
Macroblock N+1
mcbpc dquant MOTION VECTOR
cbpy dquant
COEFFICIENT DATA OF EACH BLOCK

FIG. 4

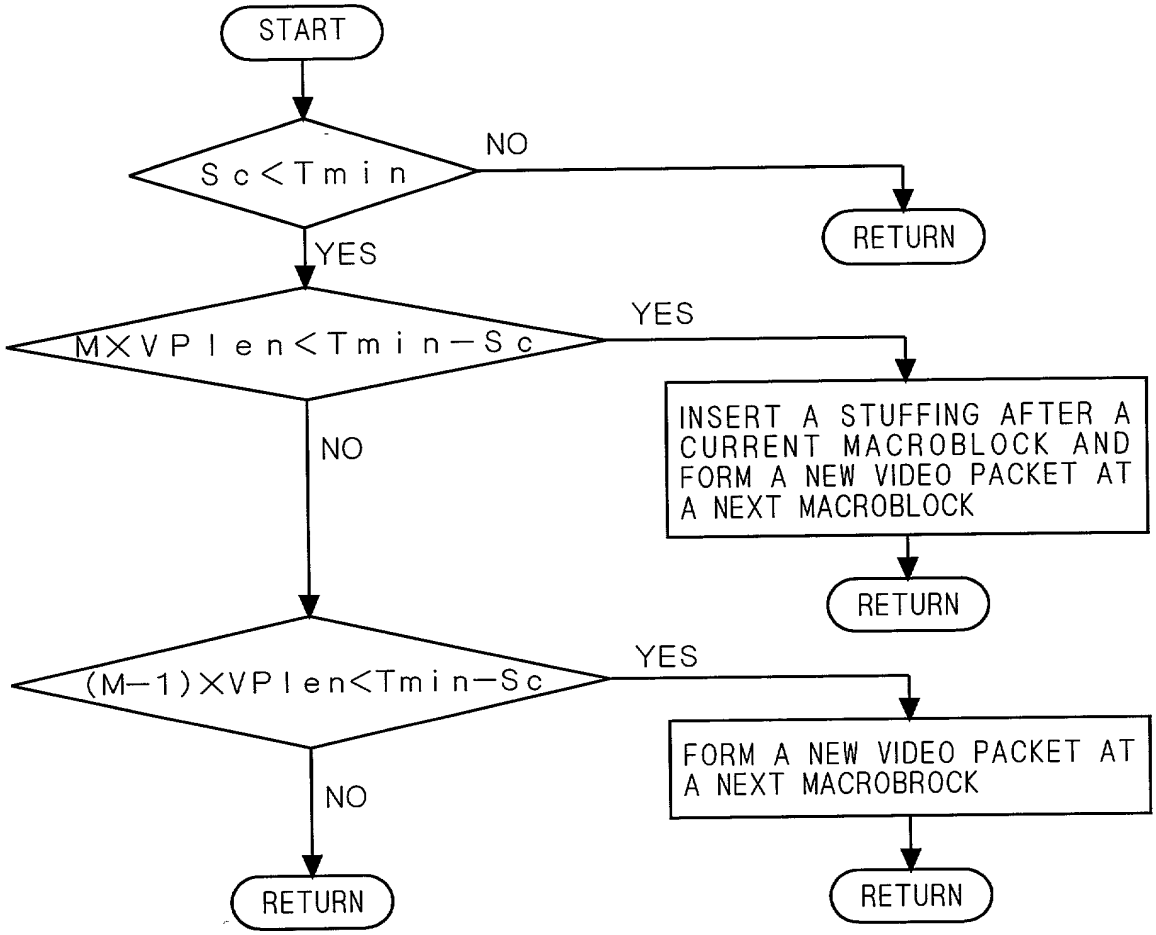

START
Sc<Tmin
NO
RETURN
YES
MXVPlen<Tmin−Sc
YES
INSERT A STUFFING AFTER A CURRENT MACROBLOCK AND FORM A NEW VIDEO PACKET AT A NEXT MACROBLOCK
RETURN
NO
(M−1)XVPlen<Tmin−Sc
YES
FORM A NEW VIDEO PACKET AT A NEXT MACROBROCK
RETURN
NO
RETURN

FIG. 5A

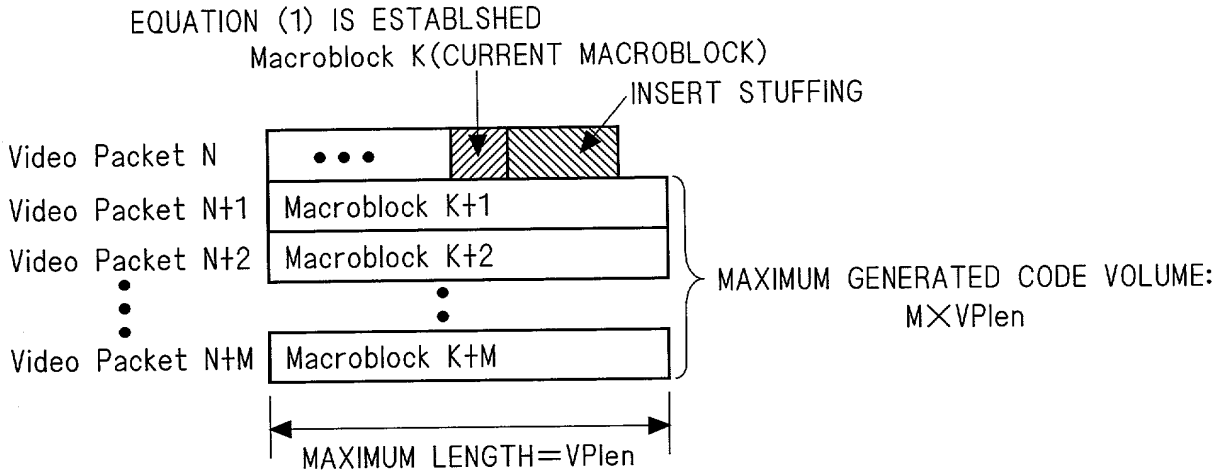


FIG. 5B

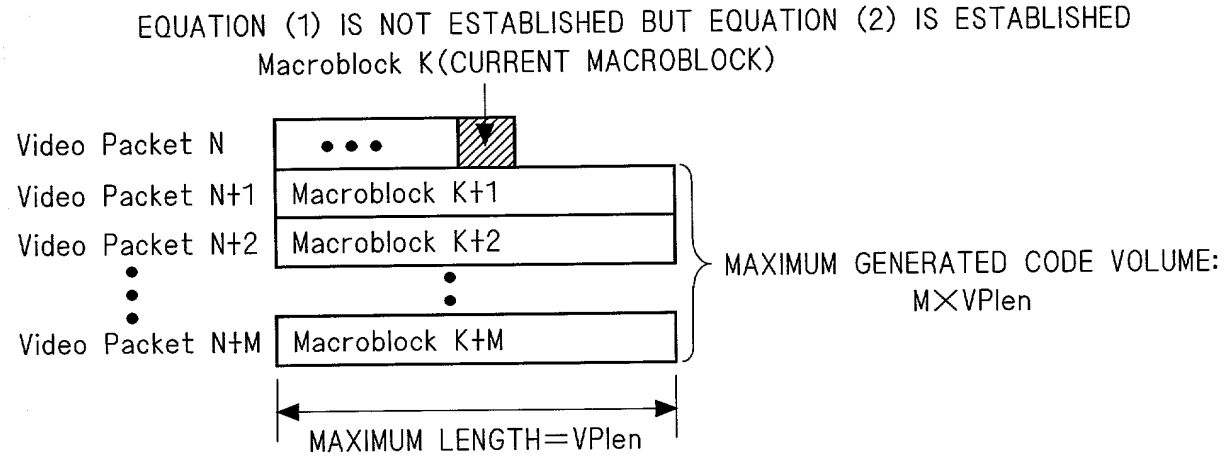


FIG. 5C

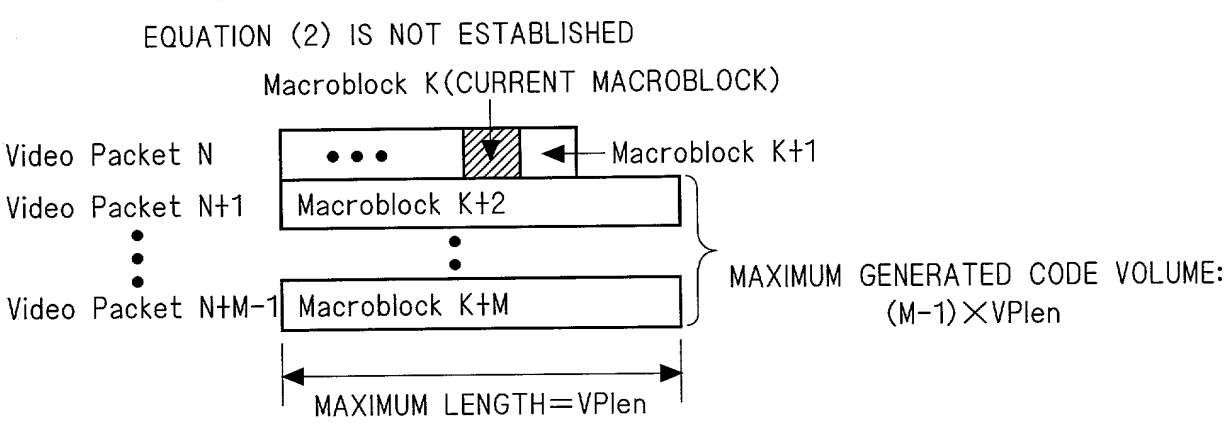


FIG. 6

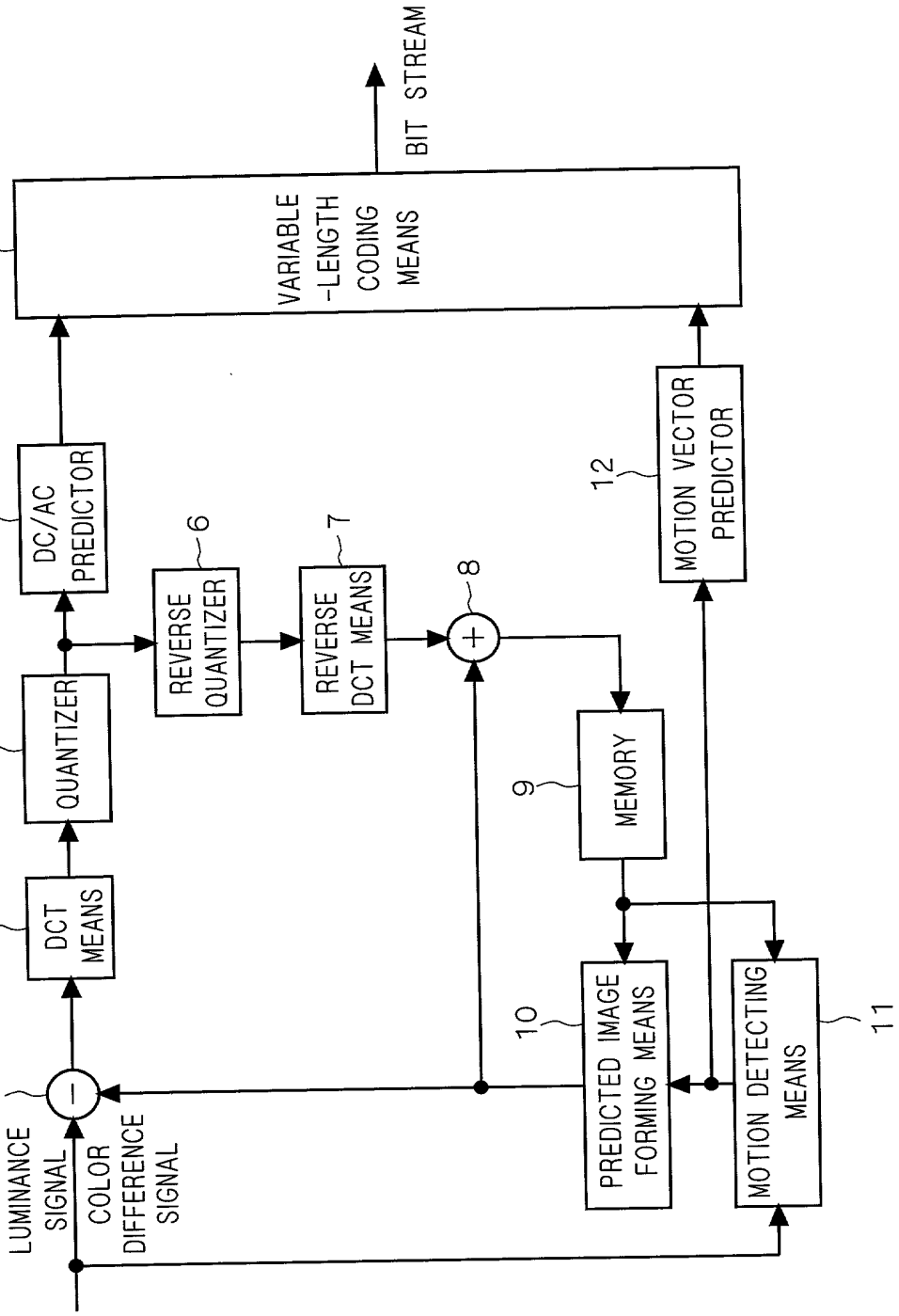

LUMINANCE SIGNAL
COLOR DIFFERENCE SIGNAL
1
DCT MEANS
2
QUANTIZER
3
DC/AC PREDICTOR
4
VARIABLE -LENGTH CODING MEANS
5
BIT STREAM
REVERSE QUANTIZER
6
REVERSE DCT MEANS
7
8
MEMORY
9
PREDICTED IMAGE FORMING MEANS
10
MOTION DETECTING MEANS
11
MOTION VECTOR PREDICTOR
12

FIG. 7

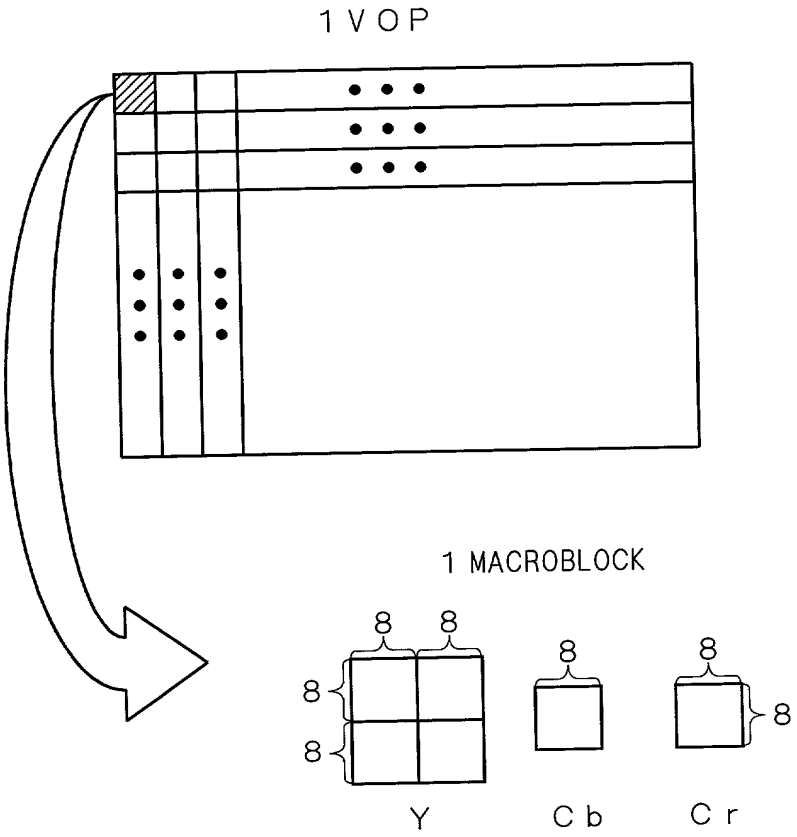


FIG. 8A

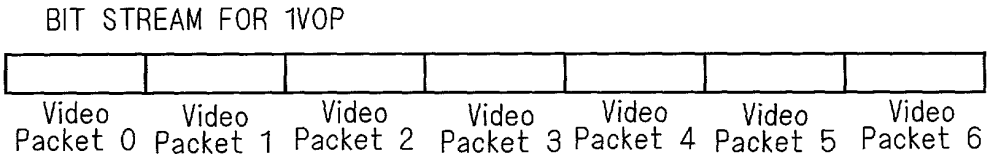


FIG. 8B

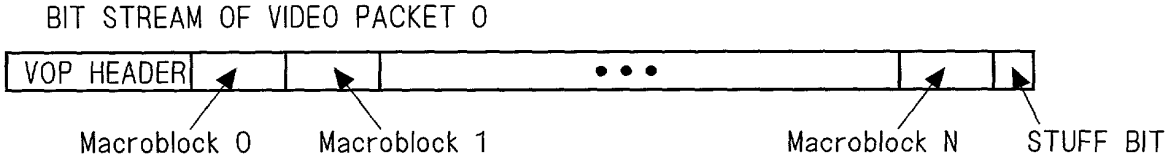


FIG. 8C

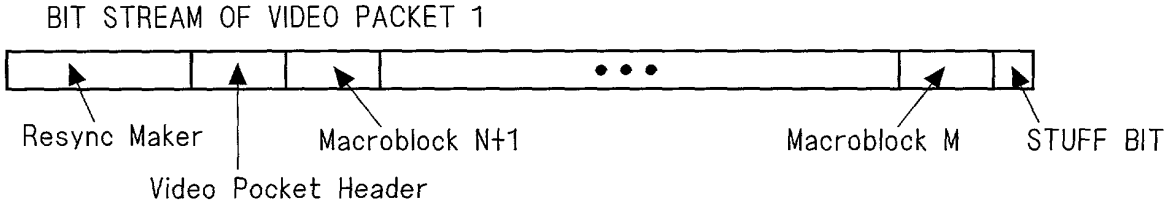


FIG. 8D

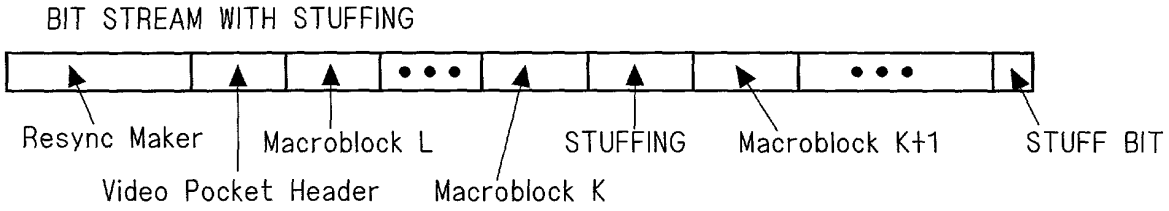
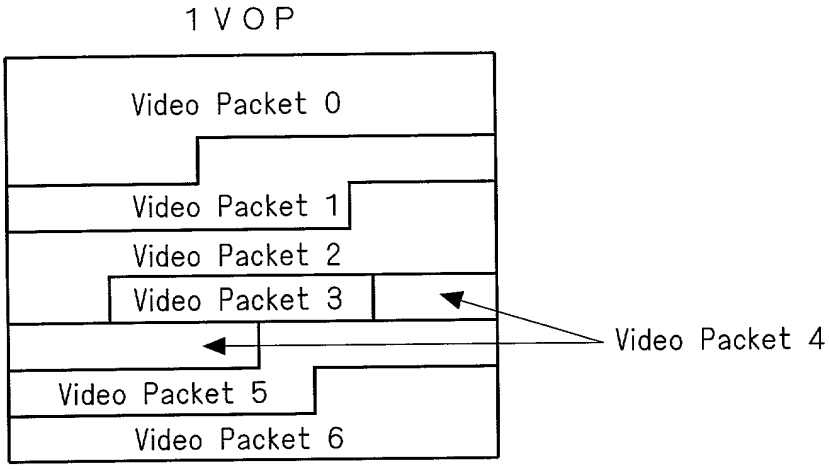


FIG. 9


1 VOP
Video Packet 0
Video Packet 1
Video Packet 2
Video Packet 3
Video Packet 4
Video Packet 5
Video Packet 6